

## 光パワーメータ

:POF/HPCF

:MM

:MM&amp;SM

:SM



|          | P/N        | 標準装備品                | 635           | 655 | 660 | 780 | 820 | 850 | 1310         | 1490 | 1550 | 1625 | 1650 | 備考 |
|----------|------------|----------------------|---------------|-----|-----|-----|-----|-----|--------------|------|------|------|------|----|
| 200シリーズ  | *205A      | 180-SC<br>Hard case  | UM-3          |     |     |     |     |     |              |      |      |      |      |    |
|          | 215        | 180-SC<br>Hard case  | UM-3          |     |     |     |     |     | 1300<br>1310 |      |      |      |      |    |
|          | 208        | 180-SC<br>Hard case  | UM-3          |     |     |     |     |     |              |      |      |      |      |    |
|          | 218        | 180-SC<br>Hard case  | UM-3          |     |     |     |     |     |              |      |      |      |      |    |
|          | PC-208PCJC |                      |               |     |     |     |     |     |              |      |      |      |      |    |
|          | 260 (PON)  | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |              |      |      |      |      |    |
| MINIシリーズ | *211A      | 180-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |              |      |      |      |      |    |
|          | *212B      | 180-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |              |      |      |      |      |    |
|          | 213B       | 180-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |              |      |      |      |      |    |
|          | 216        | 180-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |              |      |      |      |      |    |
|          | *219       | 181-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |              |      |      |      |      |    |
|          |            |                      |               |     |     |     |     |     |              |      |      |      |      |    |



## 光源

:POF/HPCF

:MM

:MM&amp;SM

:SM



|                | P/N                   | 標準装備品                 | 635 | 655 | 660 | 780 | 820 | 850 | 1310 | 1490 | 1550 | 1625 | 1650 | 備考 |
|----------------|-----------------------|-----------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|----|
| 200シリーズ用光源ユニット | LED光源                 |                       |     |     |     |     |     |     |      |      |      |      |      |    |
|                | 310-066LS             | Protect Cap           |     |     |     |     |     |     |      |      |      |      |      |    |
|                | 310-085LS             | Protect Cap           |     |     |     |     |     |     |      |      |      |      |      |    |
|                | 310-131LS             | Protect Cap           |     |     |     |     |     |     |      |      |      |      |      |    |
|                | Laser Diode光源         |                       |     |     |     |     |     |     |      |      |      |      |      |    |
|                | 310-131LD             | Protect Cap<br>181-SC |     |     |     |     |     |     |      |      |      |      |      |    |
| 310-155LD      | Protect Cap<br>181-SC |                       |     |     |     |     |     |     |      |      |      |      |      |    |



|                | P/N                  | 標準装備品                | 635           | 655 | 660 | 780 | 820 | 850 | 1310 | 1490 | 1550 | 1625 | 1650 | 備考                    |
|----------------|----------------------|----------------------|---------------|-----|-----|-----|-----|-----|------|------|------|------|------|-----------------------|
| MINIシリーズ       | LED光源                |                      |               |     |     |     |     |     |      |      |      |      |      |                       |
|                | *351                 | 180-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      |                       |
|                | *352                 | 180-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      |                       |
|                | VCSEL光源              |                      |               |     |     |     |     |     |      |      |      |      |      |                       |
|                | 361                  | 181-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      |                       |
|                | LD                   |                      |               |     |     |     |     |     |      |      |      |      |      |                       |
|                | *362                 | 181-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      |                       |
|                | *363                 | 181-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      |                       |
|                | *364 Dual光源          | 181-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      |                       |
|                | 368 Dual光源           | 181-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      | 850 VCSEL,<br>1310 LD |
|                | DFB                  |                      |               |     |     |     |     |     |      |      |      |      |      |                       |
|                | 372                  | 181-SC<br>Hard cover | UM-3<br>Strap |     |     |     |     |     |      |      |      |      |      | 受注生産                  |
| 373            | 181-SC<br>Hard cover | UM-3<br>Strap        |               |     |     |     |     |     |      |      |      |      | 受注生産 |                       |
| 300シリーズ        | LD Dual              |                      |               |     |     |     |     |     |      |      |      |      |      |                       |
|                | 385H                 | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      |                       |
|                | LD                   |                      |               |     |     |     |     |     |      |      |      |      |      |                       |
|                | 392H                 | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      |                       |
|                | 393H                 | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      |                       |
|                | 395H                 | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      |                       |
|                | DFB                  |                      |               |     |     |     |     |     |      |      |      |      |      |                       |
|                | 392HD                | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      | 受注生産                  |
|                | 393HD                | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      | 受注生産                  |
|                | 394HD/1625           | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      | 受注生産                  |
| 394HD/1650     | 181-SC<br>Hard case  | UM-3                 |               |     |     |     |     |     |      |      |      |      | 受注生産 |                       |
| 近接部視認用<br>可視光源 | 365A (LD)            | UM-3<br>Hard cover   | Strap         | 650 |     |     |     |     |      |      |      |      |      |                       |
|                | 366 (LD)             | UM-3<br>Hard cover   | Strap         | 650 |     |     |     |     |      |      |      |      |      |                       |
|                | 380H-6 (LD)          | 181-SC<br>Hard case  | UM-3          |     |     |     |     |     |      |      |      |      |      |                       |



# 2012 **phatom** SELECTION CHART

## 減衰器

: POF/HPCF                    : MM                    : MM&SM                    : SM



| P/N                   | 標準装備品               | 635  | 655 | 660 | 780 | 820 | 850 | 1310 | 1490 | 1550 | 1625 | 1650 | 備考 |
|-----------------------|---------------------|------|-----|-----|-----|-----|-----|------|------|------|------|------|----|
| <b>780ZA</b> (0.1dB)  | 181-SC<br>Hard case | UM-3 |     |     |     |     |     |      |      |      |      |      |    |
| <b>781ZA</b> (0.01dB) | 181-SC<br>Hard case | UM-3 |     |     |     |     |     |      |      |      |      |      |    |

## 光トークセット



| P/N                           | 標準装備品               | 635              | 655 | 660 | 780 | 820 | 850 | 1310 | 1490 | 1550 | 1625 | 1650 | 備考   |
|-------------------------------|---------------------|------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| <b>415</b> (35dB)             | 181-SC<br>Hard case | UM-3<br>Head set |     |     |     |     |     |      |      |      |      |      | 受注生産 |
| <b>430</b> (45dB)             | 181-SC<br>Hard case | UM-3<br>Head set |     |     |     |     |     |      |      |      |      |      | 受注生産 |
| <b>450</b> (55dB)             | 181-SC<br>Hard case | UM-3<br>Head set |     |     |     |     |     |      |      |      |      |      | 受注生産 |
| <b>450X L</b> (60dB)          | 181-SC<br>Hard case | UM-3<br>Head set |     |     |     |     |     |      |      |      |      |      | 受注生産 |
| <i>499-HS5(Head set)</i>      |                     |                  |     |     |     |     |     |      |      |      |      |      |      |
| <i>499-JC(Cascade code)</i>   |                     |                  |     |     |     |     |     |      |      |      |      |      |      |
| <i>199-CBT(Carrying case)</i> |                     |                  |     |     |     |     |     |      |      |      |      |      |      |

## クランプカブラ



| P/N                    | 標準装備品               | 635           | 655 | 660 | 780 | 820 | 850 | 1310 | 1490 | 1550 | 1625 | 1650 | 備考 |
|------------------------|---------------------|---------------|-----|-----|-----|-----|-----|------|------|------|------|------|----|
| <b>550</b> (40dB/0.25) | 181-SC<br>Hard case |               |     |     |     |     |     |      |      |      |      |      |    |
| <i>190-M-2(grease)</i> |                     | cotton sticks |     |     |     |     |     |      |      |      |      |      |    |

## ファイバーID



| P/N                           | 標準装備品                  | 635  | 655 | 660 | 780 | 820 | 850 | 1310 | 1490 | 1550 | 1625 | 1650 | 備考 |
|-------------------------------|------------------------|------|-----|-----|-----|-----|-----|------|------|------|------|------|----|
| <b>591</b>                    | 591-H0.25<br>Hard case | UM-3 |     |     |     |     |     |      |      |      |      |      |    |
| <i>591-H0.25(Sencer head)</i> |                        |      |     |     |     |     |     |      |      |      |      |      |    |
| <i>591-H0.9(Sencer head)</i>  |                        |      |     |     |     |     |     |      |      |      |      |      |    |
| <i>591-H2.0(Sencer head)</i>  |                        |      |     |     |     |     |     |      |      |      |      |      |    |
| <i>591-H3.0(Sencer head)</i>  |                        |      |     |     |     |     |     |      |      |      |      |      |    |

## モードスクランブラ&リファレンスケーブル



| P/N          | 635 | 655 | 660 | 780 | 820 | 850 | 1310 | 1490 | 1550 | 1625 | 1650 | 備考      |
|--------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|---------|
| 100G         |     |     |     |     |     |     |      |      |      |      |      | (SC-SC) |
| 100G-SC・LC   |     |     |     |     |     |     |      |      |      |      |      | (SC-LC) |
| 160-SM-SC    |     |     |     |     |     |     |      |      |      |      |      | (SC-SC) |
| 160-SM-FC    |     |     |     |     |     |     |      |      |      |      |      | (FC-FC) |
| 160-SM-SC・LC |     |     |     |     |     |     |      |      |      |      |      | (SC-LC) |

## コネクタアダプター

: POF/HPCF                    : MM                    : MM / SM                    : SM



| P/N                           | Applicable connector Type      | JIS        | PCF | GI | SM | 備考  |
|-------------------------------|--------------------------------|------------|-----|----|----|---|
| *180-FC                       | FC                             | F01        |     |    |    | 205A 215 208 218<br>211A 212B 213B<br>216 351 352 |
| *180-HDL                      | DL/DLC                         | F06<br>F08 |     |    |    |   |
| 180-HPP                       | HP                             |            |     |    |    |   |
| *180-HTL                      | CF1071 CF1571<br>CF2001 CF2071 | F05<br>F07 |     |    |    |   |
| *180-LC                       | LC                             |            |     |    |    |   |
| 180-MD                        | MD                             |            |     |    |    |   |
| *180-MU                       | MU                             | F14        |     |    |    |   |
| *180-SC                       | SC                             | F04        |     |    |    |   |
| 180-SMA                       | SMA                            |            |     |    |    |   |
| *180-ST                       | ST                             |            |     |    |    |   |
| 180-UA                        | Universal Adapter              |            |     |    |    |   |
| 180-JFC                       | FC-FC                          |            |     |    |    |   |
| 180-JLC                       | LC-LC                          |            |     |    |    |   |
| 180-JSC                       | SC-SC                          |            |     |    |    |   |
| 180-JTL                       | TL-TL                          |            |     |    |    |   |
| 180-JSC/FC                    | SC-FC                          |            |     |    |    |   |
| 180-JSC/LC                    | SC-LC                          |            |     |    |    |   |
| 180-JSC/MU                    | SC-MU                          |            |     |    |    |   |
| 180-JSC/ST                    | SC-ST                          |            |     |    |    |   |
| 180-BFA(Set)                  |                                |            |     |    |    | FC SC ST DIN                                      |
| <i>180-BFA1(adapter body)</i> |                                |            |     |    |    |   |
| <i>180-BFA2(Ferule)</i>       |                                |            |     |    |    |   |
| <i>180-BFA3(case)</i>         |                                |            |     |    |    |   |
| <i>180-JSC/FC</i>             |                                |            |     |    |    |   |
| 180-BFC                       |                                |            |     |    |    |   |
| 181-FC                        | FC                             | F01        |     |    |    | 260 219 361 362 363                               |
| 181-LC                        | LC                             |            |     |    |    | 364 368 372 373                                   |
| 181-SC                        | SC                             | F04        |     |    |    | 39xH 39xHD  |
| 181-ST                        | ST                             |            |     |    |    | 780 781ZA   |
| 180-C                         | Protect Cap                    |            |     |    |    |   |

## AC電源アダプター

| P/N     | 電圧           | Applicable Types (適用機種) |       |       |       |        |       | 備考    |
|---------|--------------|-------------------------|-------|-------|-------|--------|-------|-------|
| DP-1005 | AC100V       | 205A                    | 215   | 208   | 218   | 380H-6 | 385H  |       |
| DP-1206 | AC120V       | 392H                    | 392HD | 393H  | 393HD | 394HD  | 395HD |       |
| DP-2206 | AC230V ± 15V | 430                     | 450   | 450XL | 550   | 591    | 780ZA | 781ZA |

\* Please note AC sources in your countries. / 使用地域の電圧条件等をご確認願います

## 光ネットワークテストキット

:POF/HPCF

:MM

:MM / SM

:SM



Model 811A



Model 837SX



Model 850



Model 861



Model 864

|                                  | P/N  | 標準装備品   | 635 | 655       | 660 | 780 | 820 | 850       | 1310                      | 1490 | 1550      | 1625 | 1650 | 備考 |
|----------------------------------|--|---|-----|-----------|-----|-----|-----|-----------|---------------------------|------|-----------|------|------|----|
| LAN<br>(MM)                      | 810A<br>Mini Multimode Fiber<br>テストキット                 | 211A 180-SC<br>351 180-FC<br>352 180-ST<br>199-CBM  |     |           |     |     |     | OPM<br>LS | OPM<br>LS                 |      | OPM       |      |      |    |
|                                  | 811A<br>Mini Multimode Fiber<br>テストキット<br>(モードスワッチ付入り) | 211A 180-SC<br>351 180-FC<br>352 180-ST<br>180-JSC 100G<br>180-JSC/FC 199-CBM<br>180-JSC/ST |     |           |     |     |     | OPM<br>LS | OPM<br>LS                 |      | OPM       |      |      |    |
| LAN<br>(MM)<br>CC-Link           | 837SX<br>CC-Link IE<br>1000Base-SXテストキット               | 211A 180-LC<br>351 180-JLC<br>100G-SC/LC 199-CBM3   |     |           |     |     |     | OPM<br>LS | OPM                       |      | OPM       |      |      |    |
|                                  | 838LX<br>CC-Link IE<br>1000Base-LXテストキット               | 211A 181-LC<br>368 180-JLC<br>160-GI-LC 199-CBM3<br>180-LC                                  |     |           |     |     |     | OPM<br>LS | OPM<br>LS                 |      | OPM       |      |      |    |
| FTTH<br>(SM)                     | 822A<br>Mini Multimode Fiber<br>テストキット                 | 211A 180-SC<br>362 181-SC<br>363 180-JSC<br>160-SM-SC 199-CBM                               |     |           |     |     |     | OPM       | OPM<br>LS                 |      | OPM<br>LS |      |      |    |
|                                  | 831A<br>Mini FAリンク・LAN対応<br>コンパクトキット                   | 211A 180-SC<br>361 180-LC<br>180-JLC 181-SC<br>100G-SC/LC 199-CBM3                          |     |           |     |     |     | OPM<br>LS | OPM                       |      | OPM       |      |      |    |
|                                  | 832A<br>Mini FAリンク・LAN対応<br>コンパクトキット                   | 211A 180-SC<br>362 180-LC<br>180-JLC 181-SC<br>160-SM-SC 199-CBM2                           |     |           |     |     |     | OPM       | OPM<br>LS                 |      | OPM       |      |      |    |
| 基地<br>局<br>用<br>(SM)             | 850<br>シングルモードファイバー<br>テストキット<br>(局社用)                 | 215 180-SC<br>385H 181-SC<br>180-JSC 199-CBM<br>160-SM-SC                                   |     |           |     |     |     | OPM       | OPM<br>1300<br>LS<br>1310 |      | OPM<br>LS |      |      |    |
| Multi                            | 861A<br>Mini LAN 対応<br>可視光源キット                         | 211A 180-SC<br>366 180-FC<br>199-CBM2   |     | LS<br>650 |     |     |     | OPM       | OPM                       |      | OPM       |      |      |    |
|                                  | 864A<br>Mini FTTH対応<br>デュアル光源キット                       | 211A 180-SC<br>364 181-SC<br>199-CBM2   |     |           |     |     |     | OPM       | OPM<br>LS                 |      | OPM<br>LS |      |      |    |
| 専用<br>機<br>種<br>キ<br>ャ<br>ー<br>ス | 199-CBA  | 200・Mini シリーズ   |     |           |     |     |     |           |                           |      |           |      |      |    |
|                                  | 199-CBM  | Mini シリーズ   |     |           |     |     |     |           |                           |      |           |      |      |    |
|                                  | 199-CBM2   | Mini シリーズ(コンパクト型)   |     |           |     |     |     |           |                           |      |           |      |      |    |
|                                  | 199-CBM3   | Mini シリーズ(キット831専用)   |     |           |     |     |     |           |                           |      |           |      |      |    |
|                                  | 199-CBT  | トークセット用   |     |           |     |     |     |           |                           |      |           |      |      |    |

## 修理・校正

Hakuto Co., Ltd  
TEL : 81-3-3225-9083  
FAX : 81-3-3225-9022  
URL  
[www.phatom.hakuto.jp](http://www.phatom.hakuto.jp)

|                    | P/N | 標準装備品                                 | 適用機種   | 備考           |
|--------------------|-----|---------------------------------------|--|--------------|
| 新規校正作業<br>(校正証明書付) |     | 校正作業<br>校正証明書<br>テストデータ<br>トレサビリティ体系図 | パワーメータ、光源類、可変アッテネータ<br>ノファイバID、トークセット、クランプカプラーは品質保証書にて対応します。 | 発行日:<br>製造日付 |
| 校正証明書<br>発行手数料     |     | 校正証明書<br>テストデータ<br>トレサビリティ体系図         |  |              |
| 試験データ              |     | テストデータ                                |  |              |
| 修理作業               |     | 修理作業<br>完了報告書                         | 基本工料 + 実費  |              |